

Muskrat Creek (115-32-10250-2081) Route Correction*Stream:* Muskrat Creek (115-32-10250-2081)*Watershed:* Chilkat-Inlet Frontal Lynn Canal*USGS Quadrangle:* Skagway B-3*MTRS:* CO28S056E30*Date Surveyed:* August 9-11, 2012

Findings: Over the course of three days we tracked and surveyed Muskrat Creek (115-32-10250-2081) and its associated tributaries. We had several visual observations of spawning sockeye salmon in the lower-mid portions of the creek. We caught juvenile coho salmon above the current AWC upper extent. The headwater of Muskrat Creek is a small seep from ground close to the Haines Highway.

Recommendations: Correct the stream route, add spawning sockeye, and extend the upper extent for coho in the AWC for Muskrat Creek.

Nomination form submitted: Yes*Nomination status:**Notes:***Table 1: Muskrat Creek (115-32-10250-2081) Route Correction Survey Data**

Waypoints	Latitude	Longitude	Notes	Sample Effort	Sample Results
5	59.417391	-135.944041	Mouth of Muskrat Creek. ~ 45-50 feet wide. Will track up along bank.		
6	59.413661	-135.947542	Tributary enters river right. We will track up tributary. E-fisher settings- 320 V, 12% duty cycle, 30 Hz. E-fished one spot along tributary-no fish	electrofish	no fish
7	59.413052	-135.94781	Calling it the top. No defined channel. Spreads out into a wooded wetland.		
8	59.413521	-135.947597	Electrofished the lower portion of tributary from WPT. 6. Caught 2 coho	electrofish	2 coho
9	59.413501	-135.947613	As we walked down the tracked tributary we found another branch of this tributary. We will track up.		
10	59.413198	-135.94815	Calling it the top. Wooded, spread out marsh.		
11	59.413463	-135.948807	Visual of 3 (2M, 1 F) adult sockeye.	visual	3 adult sockeye
12	59.412846	-135.950075	More sockeye and redds	visual	sockeye
13	59.412784	-135.951466	More sockeye and redds	visual	sockeye

14	59.412757	-135.951701	Tributary entering river left. Gravel is very iron enriched. We will track up		
15	59.412808	-135.95274	Tributary enters river left. Will track up		
16	59.41288	-135.953309	E-fished and caught 1 coho~ 35 mm, 1 visual on coho from shocking	electrofish	1 coho ~35mm
17	59.412907	-135.953421	E-fished 2 coho- system is very iron enriched and silty	electrofish	2 coho
18	59.413101	-135.953624	E-fished 2 coho	electrofish	2 coho
19	59.413337	-135.954232	Visual ID- coho	visual	coho
20	59.413264	-135.954783	Dipnet 3 coho	dipnet	3 coho
21	59.413566	-135.95662	Calling it the top-stagnant mud hole		
25	59.412741	-135.951743	Return to Muskrat Creek today to finish where we left off from yesterday. We are going to start at WPT 14. Visual ID- 4 Sockeye at confluence. We are going to track RR today.	visual	4 sockeye
26	59.412461	-135.952303	Tributary enters river right. Will track up		
27	59.41241	-135.952256	E-fisher settings 320 V, 12 % duty, 30 Hz. E-fished 3 coho	electrofish	3 coho
28	59.411952	-135.952487	Top of watered area. Spreads out into forest		
29	59.412494	-135.952365	Sockeye and redds present	visual	sockeye
30	59.412236	-135.953005	Sockeye and redds present up to this point and below. Great spawning habitat. Gravel and many upwellings.	Visual	sockeye
31	59.411876	-135.954822	We have not seen a sockeye since WPT 30. We are going to e-fish. Caught 3 DV. Continue to track up	electrofish	3 DV
32	59.411727	-135.954951	E-fished 2 CO and 13 DV	electrofish	2 CO, 13 DV
33	59.411367	-135.955098	Caught one CO in a giant upwelling ~ 65mm.	electrofish	1 CO ~ 65mm
34	59.410707	-135.954821	Top of tributary. Right next to the road. We did not see any other fish past WPT 33		

35	59.412755	-135.953127	Electrofisher settings 320 V, 30 Hz, 12 % duty cycle. Got 2 coho about 35 mm and 10 ft. upstream from 1 adult sockeye	electrofish /visual	2 coho ~ 35mm, 1 adult sockeye
36	59.412986	-135.953963	Electrofished and got 3 coho about 45 mm	electrofish	3 coho ~ 45 mm
37	59.413037	-135.954508	Electrofished and got 2 CO about 40 mm. 1 DV ~ 65 mm	electrofish	2 coho ~ 40 mm, 1 DV ~ 65 mm
38	59.412602	-135.955144	Electrofished 2 coho about 40 mm	electrofish	2 coho ~ 40 mm
39	59.412257	-135.955752	Electrofished 2 coho about 35 mm	electrofish	2 coho ~ 35 mm
40	59.412206	-135.956435	Electrofished 3 coho about 45 mm	electrofish	3 coho ~ 45 mm
41	59.412086	-135.956313	Electrofished 2 DV about 35 mm and 2 coho about 40 mm	electrofish	2 DV ~ 35 mm, 2 coho ~ 40 mm
42	59.411941	-135.956362	Electrofished 2 coho about 40 mm	electrofish	2 coho ~ 40 mm
43	59.4118	-135.956533	Tributary entering river right, tracking and shocking. 1 DV about 55 mm	electrofish	1 DV ~ 55 mm
44	59.411167	-135.956706	Top of tributary ends in an upwelling hole that had coho in hole. Electrofished 6 coho out about 50 mm.	electrofish	6 coho ~ 50 mm
45	59.411474	-135.958016	Culvert outlet that goes under Duck Marsh Road. Wide culvert mouth. Also very filled with silt and mud.		
46	59.411566	-135.958461	Electrofished 3 coho about 45 mm. One really dark one.	electrofish	3 coho ~ 45 mm
47	59.411569	-135.958917	Possible tributary. Entering river right. Will come back later to investigate.		
48	59.411734	-135.959503	Electrofished 1 coho about 40 mm	electrofish	1 coho ~ 40 mm
49	59.411584	-135.959976	Electrofished 2 coho about 50 mm	electrofish	2 coho ~ 50 mm
50	59.411253	-135.960553	Electrofished 3 coho about 45 mm	electrofish	3 coho ~ 45 mm

51	59.410922	-135.961494	Electrofished 1 coho about 40 mm	electrofish	1 coho ~ 40 mm
52	59.410676	-135.962189	Tributary entering river right, tracking and shocking.		
53	59.410507	-135.962388	Electrofished 4 coho about 50 mm	electrofish	4 coho ~ 50 mm
54	59.410397	-135.962465	Top of tributary, just an upwelling. Electrofished pool at head and got 3 coho about 40 mm.	electrofish	3 coho ~ 40 mm
55	59.410495	-135.962484	Split in creek, it is an even split in flow. Will track river left branch first		
56	59.410548	-135.962635	Electrofished 2 coho about 40 mm	electrofish	2 coho ~ 40 mm
57	59.410726	-135.963956	Electrofished 3 coho about 50 mm	electrofish	3 coho ~ 50 mm
58	59.410346	-135.965454	Top of river left branch. The water is just seeping up out of the ground. There is channel here but does not appear to flow often. Very plant filled.		
59	59.410146	-135.964297	Top of river right branch. Then water just seeping up out of the ground. Electrofished to here and got nothing. Super irony.		

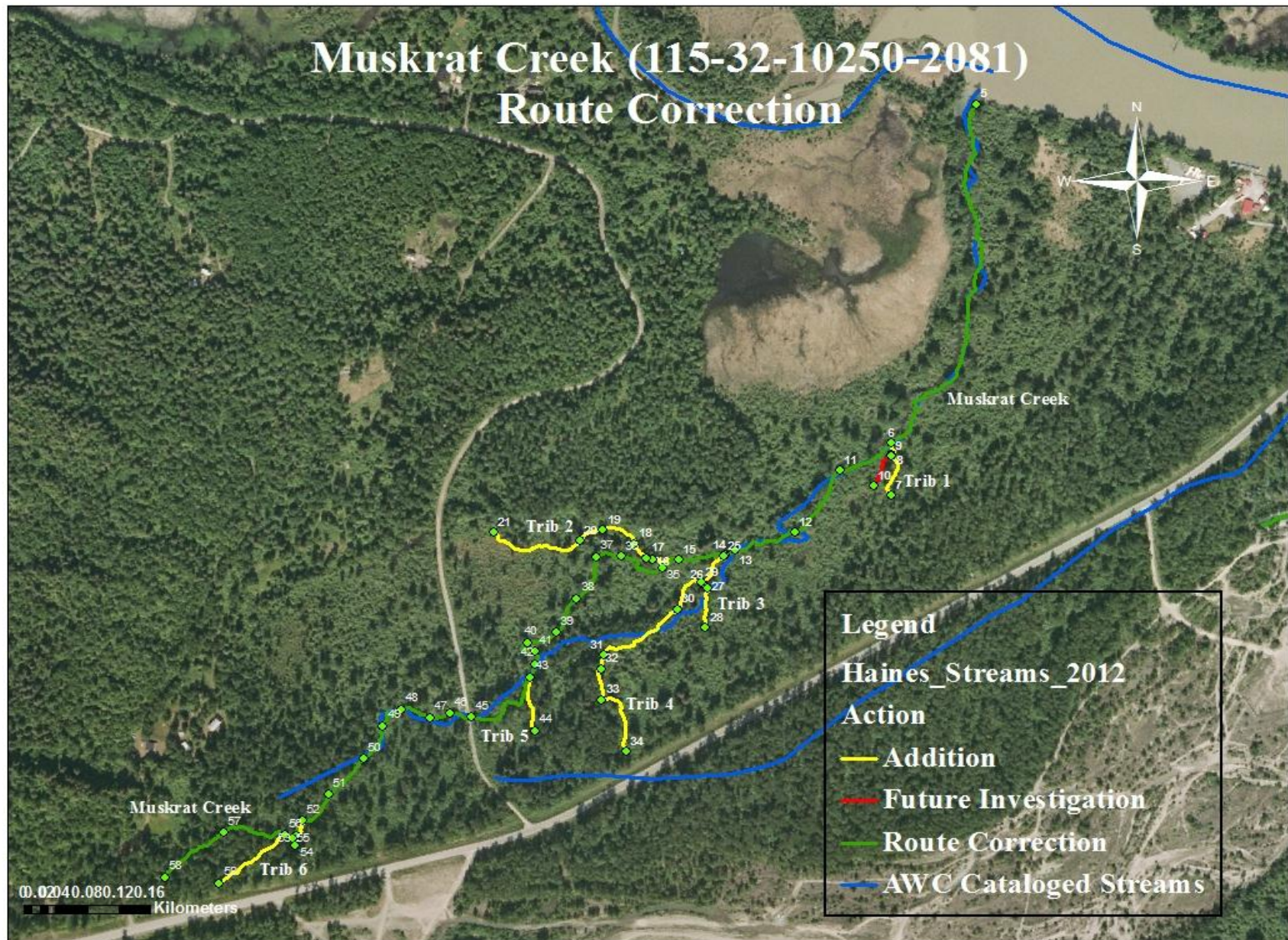


Figure 1: Map of Muskrat Creek (115-32-10250-2081) Route Correction